

**Background Document A:**

**List of Acronyms**

**Utah Chemical Agent Rule (UCAR)**

**May 1999**

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## Background Document A: List of Acronyms

ABS	skin absorption factor
AChE	acetylcholinesterase
ACWA	Assembled Chemical Weapons Assessment Program (Army)
AEC	Army Environmental Center
AEL	airborne exposure limit
AF	soil-to skin adherence factor
AIHC	American Industrial Health Council
AR	Army regulation
As	arsenic
ASTM	American Society for Testing and Materials
AT	averaging time
ATc	averaging time for carcinogenic compounds
ATn	averaging time for noncarcinogenic compounds
BDAT	best demonstrated available technology
BRA	brine reduction area
BW	body weight
BZ	3-quinuclidinyl benzilate
CAIS	chemical agent identification set
CAMDS	Chemical Agent Munitions Disposal System
CAMU	corrective action management unit
CAS	Chemical Abstracts Service
CBDCOM	Chemical and Biological Defense Command (Army)
CDC	Centers for Disease Control and Prevention
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CG	phosgene, carbonyl chloride
CHCl <sub>3</sub>	chloroform, trichloromethane
ChE	cholinesterase
chlorosarin	chloro-GB, O-isopropyl methylphosphonochloridate
chlorosoman	chloro-GD, O-pinacolyl methylphosphonochloridate
CI	confidence interval
CK	cyanogen chloride
cm	centimeter(s)
cm <sup>2</sup>	square centimeter(s)
CN	chloroacetophenone
CNEUT	chemical neutralization (technology code)

COT	Committee on Toxicology
CPL	Contract Laboratory Program
CVAA	2-chlorovinylarsonous acid
CWA	Clean Water Act
CX	phosgene oxime
°C	degree(s) Celsius
°F	degree(s) Fahrenheit
d	day(s)
DA	Department of the Army
DA PAM	Department of the Army pamphlet
DCD	Deseret Chemical Depot
DCDMH	1,3-dichloro-5,5-dimethylhydantoin
decon	decontamination
DF	methylphosphonyl difluoride
DFS	deactivation furnace system
DL	detection limit
DM	adamsite, phenylarsazine chloride
DOD	U.S. Department of Defense
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
DP	diphosgene, trichloromethyl chloroformate
DPE	demilitarization protective ensemble
DPG	Dugway Proving Ground
DRMO	Defense Reutilization and Marketing Office
DSHW	Division of Solid and Hazardous Waste (State of Utah)
EA2192	S-(2-diisopropylaminoethyl) methylphosphonothioic acid
ED	ethyldichloroarsine
	or
	exposure duration
EF	exposure frequency
EFH	Exposure Factors Handbook (EPA)
EFS	Exposure Factors Sourcebook (AIHC)
EMPA	ethyl methylphosphonic acid
EPA	U.S. Environmental Protection Agency
EQC	exemption quantitation criteria
ERDEC	U.S. Army Edgewood Research Development and Engineering Center
ET	exposure time
F	waste code for waste listed in 40 CFR 261.31
FC	fraction contaminated soil

FDWS	field drinking water standards
FFCA	Federal Facility Compliance Act
FM	Field Manual
FR	Federal Register
GA	tabun, O-ethyl N,N-dimethyl phosphoramidocyanidate
GB	sarin, O-isopropyl methylphosphonofluoridate
GC	gas chromatography
GC/MS	gas chromatography/mass spectroscopy
GD	soman, O-pinacolyl methylphosphonofluoridate
GF	cyclohexyl methylphosphonofluoridate
μg	microgram(s)
H	sulfur mustard (Levinstein process, undistilled), bis(2-chloroethyl) sulfide
h	hour(s)
HBESLs	health-based environmental screening levels
HCl	hydrochloric acid
HD	sulfur mustard (distilled), bis(2-chloroethyl) sulfide
HEAST	Health Effects Summary Tables (EPA)
HEPA	high-efficiency particulate air
HF	hydrogen fluoride/hydrofluoric acid
HL	mixture of mustard (HD) and lewisite (L)
HN1	bis(2-chloroethyl)ethylamine
HN2	bis(2-chloroethyl)methylamine
HN3	tris(2-chloroethyl)amine
HQ	mixture of mustard (HD) and Q-mustard (Q)
HSWA	Hazardous and Solid Waste Amendments to RCRA
HT	mixture of mustard (HD) and T-mustard (T)
HTH	high-test hypochlorite
HVAC	heating, ventilation, and air conditioning
HWIR	Hazardous Waste Identification Rule
IDL	instrument detection limit
IMPA	isopropyl methylphosphonic acid
in.	inch(es)
INCIN	incineration (technology code)
INH	inhalation rate
IRIS	Integrated Risk Information System (EPA)
IRS	soil ingestion rate
ISO	International Standards Organization

K	Waste code for waste listed in 40 CFR 261.32
kg	kilogram(s)
K <sub>p</sub>	permeability coefficient
K <sub>ow</sub>	octanol/water partition coefficient
L	lewisite 1, 2-chlorovinylchloroarsine or liter(s)
L-2	lewisite 2, bis(2-chlorovinyl)chloroarsine
L-3	lewisite 3, tris(2-chlorovinyl)arsine
LC <sub>50</sub>	concentration lethal to 50% of exposed population
LD <sub>50</sub>	dose lethal to 50% of exposed population
LDR	land disposal restriction
LDR <sub>sol</sub>	LDR concentration-based standards for solid nonwastewater matrices
LDR <sub>liq</sub>	LDR concentration-based standards for wastewaters or liquid nonwastewaters
LDRUG	Land Disposal Restrictions – Utah Group
LIC	liquid incinerator
LO	lewisite oxide, 2-chlorovinylarsenous oxide
LOQ	limit of quantitation
LQAP	laboratory quality assurance plan
m	meter(s)
m <sup>3</sup>	cubic meter(s)
MACOM	Major Army Command
MD	methyldichloroarsine
MDL	method detection limit
mg	milligram(s)
mL	milliliter(s)
mm	millimeter(s)
MMD	Munitions Management Device
mol	mole(s)
MPA	methylphosphonic acid
MPF	metal parts furnace
MW	molecular weight
N.O.S.	not otherwise specified
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
OSHA	Occupational Safety and Health Act (or Administration)
OSWER	Office of Solid Waste and Emergency Response (EPA)

P	Waste code for waste listed in 40 CFR 261.33(e)
PAS	pollution abatement system
PC	permeability coefficient
PD	phenyldichloroarsine
PEF	particulate emission factor
PMCD	U.S. Army, Program Manager for Chemical Demilitarization
ppm	part(s) per million
ppb	part(s) per billion
PPE	personal protective equipment
PQL	practical quantitation limit
PRG	preliminary remediation goal
PS	chloropicrin
Q	Q-mustard, sesquimustard, 1,2-bis(2-chloroethylthio)ethane
QA	quality assurance
QC	quality control
QL	O-ethyl O-(2-diisopropylaminoethyl) methylphosphonite or quantitation limit
RCRA	Resource Conservation and Recovery Act
RD&D	research, development, and demonstration
RDT&E	research, development, testing, and evaluation
RfC	reference concentration
RfD	reference dose
RfDi	Reference dose from inhalation data
RHA	Residue Handling Area
RRS	Rapid Response System
s	second(s)
SA	skin surface area exposed
SAB	Science Advisory Board (EPA)
SBCCOM	Soldier and Biological Chemical Command (Army)
SDWA	Safe Drinking Water Act
SERDP	Strategic Environmental Research and Development Program
SF	slope factor
SIC	Standard Industrial Classification
SIM	selected-ion monitoring
SOP	Standing Operating Procedure
STABL	stabilization (technology code)
STB	super tropical bleach

T	T-mustard, bis(2-chloroethylthioethyl) ether
T, t	temperature
TAL	target action level
TB MED	Technical Bulletin, Medical
TCLP	toxicity characteristic leaching procedure
TDG	thiodiglycol
THI	target hazard index
TM	Technical Manual
TOC	total organic carbon
TOCDF	Tooele Chemical Disposal Facility
TR	target risk
TSDF	treatment, storage, and disposal facility
TSS	total suspended solids
TWA	time-weighted average
U	Waste code for waste listed in 40 CFR 261.33(f)
U.S.C.	United States Code
UCAR	Utah Chemical Agent Rule
UR	unit risk
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
UTS	universal treatment standards
VF	volatilization factor
VX	O-ethyl S-(2-diisopropylaminoethyl) methylphosphonothioate
Vx	S-2(2-diethylamino)ethyl O-isobutyl methylphosphonothioate